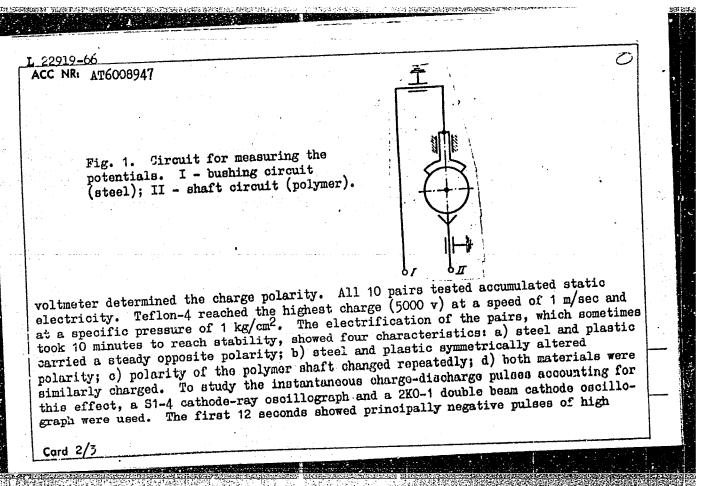
L 22919-66 EWT(m)/EWP(w)/EWA(d)/EWP(j)/T/EWP(t) LIP(c) ACC NR. AT6008947 (A) SOURCE CODE: UI	· · · · · · · · · · · · · · · · · · ·
AUTHOR: Tsurkan, V. P.	67
ORG: none	
SOURCE: Moscow. Institut mashinovedeniya. Plastmassy v pod issledovaniya, opyt primeneniya (Plastics in friction beariment in application). Moscow, Izd-vo Nauka, 1965, 75-82  TOPIC TAGS: static electricity, plastic characteristic, fr polarization, charge exchange, oscillograph, voltmeter, st VK7-3 voltmeter, Sl-4 oscillograph, 2KO-1 oscillograph, 45  ABSTRACT: Experimental studies were conducted on the tribe plastic and metal rub against each other. This work exterestic and the findings of N. G. Drozdov (Staticheskoye electronismed the findings of N. G. Drozdov (St	riction, dielectric eel/ MFO-2 oscillograph, steel 24 coelectricity produced when nded previous studies and ktrichestvo v ation of dielectrics under olymer. In all, 10 polymers bushing was made of 45 s with an accumulator were estima variation of the

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### TSUKANOV, A ...

Motorized club. Sov.shakht. 10 no.9:33 S '61. (MIRA 14:8)

1. Nachal'nik peredvizhnogo kluba Stalinskogo obkoma profoyuza rabochikh ugol'noy promyshlennosti.

(Coal miners)

# TEUKANOV, A.

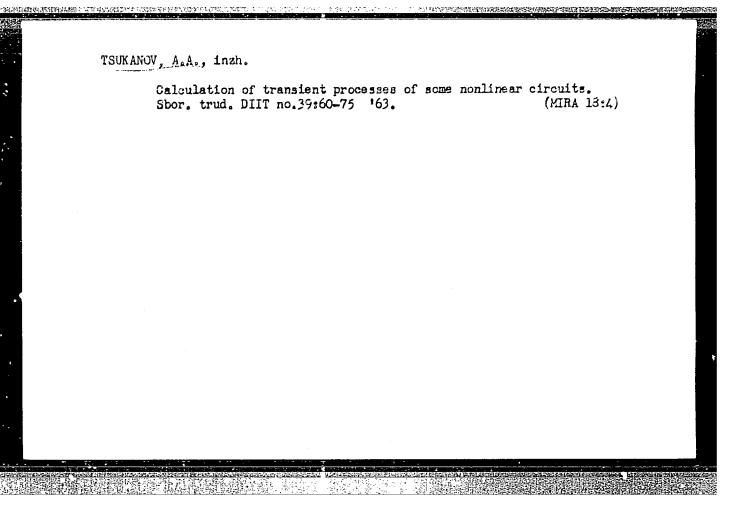
Artel of the disabled makes a profit. Prem. keep.no.9:11-12 S '56.

(MIRA 9:10)

1. Nachal'nik preizvedstvennege etdela Mesgermetpremseyusa.

(Disabled-Rehabilitation, etc)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"



ACC NR	5-66 EWP(e), AP6000347		SOURCE		86/55/000/021/0043/ 44	
AUTHOR	S: Syritskay	a, Z, M.; Ive	nova, V. M.; Ar	asovskaya, Z.	A.; Meller, E. A.;	67
(aukan	10V. A. A. 7/					
ORG:		00 W 30	76057 <sup>15</sup> (5770-1770)	d by Gugavaki	y Branch of the Sta	te
Scient	<u>ific Research</u>	Institute of	f Glass (Guseva)	ciy filial nau	chno-issledovatel's	kogo
instit	tuta stekla)_/	7	9	-		
SOURCE	E: Byulleten'	izobreteniy	i tovarnykh zn	akov, no. 21,	1965, 43	
TOPIC calciu	TAGS: glass, um oxide, sodi	silicon dio um oxide, po	xide, alumina, tassium oxide	boron compound	, magnesium oxide,	544
produc	cts. The glas	s contains S	102, AL202, B20	a, mgp, cap, r	ucing chemically a $a_2\emptyset$ , and $K_2\emptyset$ . To	l l
increa	ase its resist	ance to the	action of gluco in the followin	se solution wing amounts (wt.	th ascorbic acid, 5, %): Siø, 70—74;	<u> </u>
AZ2Ø3	7-9; B2\$3 2.	5-5.5; MgØ	13.5; CaØ 1	2; Na <sub>2</sub> ø 67.	; K <sub>2</sub> \$ 1.5-2; and	also
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TSUKANOV, A.A.; SOLOV'YEV, Yu.A.

The PD-2 disk transfer device. Stek. 1 ker. 22 nc.6:31-32 Je 165.

(MIRA 13:6)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"

MOLDAVSKAYA, V.D.; TISHCHENKO, O.D.; USTINOV, A.A.; MOSHENSKAYA, F.A.; ZALKIND, L.B.; MIKHAYLOV, A.A.; TSUKANOV, A.A.; MATSUKA, A.G.; DEMCHENKO, I.A., direktor instituta.

Eradication of malaria from a town under conditions prevailing in the south of the Ukrainian S.S.R. Med.paraz.i paraz.bol. no.3:232-237 My-Je 153. (MLRA 6:8)

1. Ukrainskiy institut malyarii i meditsinskoy parazitologii i iz Stalinskoy i Zhdanovskoy protivomalyariynykh stantsiy.

(Ukraine--Malarial fever) (Malarial fever--Prevention)

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ing maki na atau makan ing kalanda ing manang manang makan ing manang makan ing manang manang manang manang ma

LAPKIN, .D. (Dnepropetrovsk): TSUKANOV, A.A. [TSukanov, O.A.]

(Dnepropetrovsk)

Dynamic stresses in an elastic viscous string caused by a sudden application of an end load by an elastic element. Prykl.mekh. 7 application of an end load by an elastic element. Prykl.mekh. 7 (MIRA 14:10)

1. Dnepropetrovskiy institut inzhenera transporta.

(Elastic rods and wires)

TSUKANOV, A.G., starshiy prepodavateli

Energy transfer with a blow in drilling and breaking hammers.

Izv. vys. uch. zav.; gor. zhur. 5 no.6:109-114 '62.

(MIRA 15:9)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M.Kirova. Rekomendovana kafedroy teoreticheskoy mekhaniki.

(Boring)

The state of the s

NIKOLAYEV, V.A.; IVANCHENKO, F.K.; TSUKANOV, E.F.; PAVLENKO, B.A.; CHEPELEV, P.M.

Investigating applied stresses during rolling on rail and structural steel mills. Stal' 23 no.10:924-925 0 '63. (MIRA 16:11)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz i zavod im. Dzerzhinskogo.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"

SOV/133-58-11-16/25

Tsukanov, G.E., Engineer AUTHOR:

Tube Billet Mill of the Works imeni Dzerzhinskiy

(Trubozagotovochnyy stan zavoda im. Dzerzhinskogo)

Stal', 1958, Nr 11, pp 1012 - 1017 (USSR) TITLE: PERIODICAL:

ABSTRACT: A short description of the tube billet mill (900-750x3) on the Decirricy Works put into operation in January, 1957, operational practice adopted and some deficiencies in the layout of the plant are given. The layout of the mill - Figure 1, the output of the mill during 1957 and the first quarter in 1958 - Figure 2, roll passes of stand 900 and 750 - Figures 3 and 4, respectively, reduction conditions for square and round billets - Tables 1 and 2, respectively. Main deficiencies in the layout: insufficient lengths of tables behind the 900 stand, so

that reverse flow during rolling of 7-ton ingots is necessary; the removal of billets 1 000 mm long for own use is wrongly designed as there is insufficient space for

Card 1/2

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#### "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8 TO THE PROPERTY OF THE PROPERT

SOV/133-58-11-16/25
Tube Billet Mill of the Dzerzhinsk Iron and Steel Works

dressing; and coolers are designed for billets up to 6 m long whilst billets of 9 and 12 m long are also being produced. There are 5 figures, 2 tables and 2 English references.

Zavod im. Dzerzhinskogo (Works imeni Dzerzhinskiy) ASSOCIATION:

Card 2/2

S/137/61/000/005/014/060 A006/A106

AUTHORS:

Ivanchenko, F.K., Molotkov, L.P., Tsukanov, E.F., Nikolayev, V.A.,

Pavlenko, B.A.

TITLE:

Measurement of pressure on a medium-sheet mill and new conditions

of reduction

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no.5, 1961, 4, abstract 5D26

("Sb.tr. Dneprodzerzh. vech. metallurg. in-ta", 1960, v.2, 139-145)

TEXT: The authors present a short description of the mill which consists of two stands: a Lauth three-high mill - for the broaching of a smooth sheet, and a two-high mill for the rolling of a corrugated sheet. During the investigations the temperature and pressure of the metal on the rolls were measured when rolling smooth sheets of  $4 \times 1,400 \times 4,200$  mm dimensions and CT .3 (St.3) corrugated steel sheets of  $5 \times 1,100 \times 6,000$  mm. The experimental results were used to calculate new conditions of reduction which make it possible to raise the efficiency of the mill by 15 - 20%.

[Abstracter's note: Complete translation]

Card 1/1

133-58-4-17/40

AUTHORS: Tsukanov, E.F., Ivanchenko, F. K. and Molotkov, L.F.,

Docents, Pavlenko, B. A., Nikolayev, V. A.,

Erizhanovskiy, A. L. and Kokhno, P. Ya., Engineers

Krizhanovskiy, A. L. and Kokhno, P. Ya., Engineers

TITLE:

Investigation of Loads During Rolling Plates

(Issledovaniye davleniy pri prokatke listov)

PERIODICAL: Stal', 1958, Nr 4, pp 332-334 (USSR)

ABSTRACT: The measurements of rolling loads endured by rolls in a medium plate mill during rolling plates were carried out. The mill consisted of two stands in line: three rolls (LAUT) for rolling plates and two-rolls for riffling plates. In the three roll mill 670 x 517 x 670 mm for rolling smooth plates cast iron rolls with a chilled surface are used and for riffled plates, forged steel rolls (50 KhG). The length of rolls 1800 mm. In the two roll stand in which only one pass is made for riffling, cast iron rolls of 650 mm diameter with chilled surface are used. The mill is powered with a 900 h.p. motor. Riffled plate was rolled in 10-12 passes and smooth plates in 11-13 passes. Measurements of loads on rolls were carried out during rolling plates (dimensions in Table 1) and the most characteristic results are given

Card 1/2 in Table 2. Experimental results are compared in Figs. 1-3.

Investigation of Loads During Rolling Plates 133-58-4-17/40

Conclusions: During intensive reductions in cast iron chilled rolls stresses are formed considerably exceeding the permissible ones. Specific load on rolls 5-6 kg/mm² at the beginning of rolling increases at the end of rolling to 28-30 kg/mm². During rolling on steel rolls the specific load is higher than on rolling on cast iron rolls (due to an increase in friction in the former case). During rolling comparatively thin products (H 33 mm) the maximum specific pressure was observed at reductions of 34-40%. With further increase in reduction the specific load decreases. There are 2 tables, 3 figures and 3 references, all of which are Soviet.

ASSOCIATIONS: Dnepodzerzhinskiy vecherniy metallurgicheskiy institut (Dneprodzerzhinski Evening Metallurgical Institute) and zavod im. Dzerzhinskogo (Works imeni Dzerzhinskiy)

1. Rolling mills--Operation 2. Plates--Rolling 3. Rolling

mills--Stresses

Card 2/2

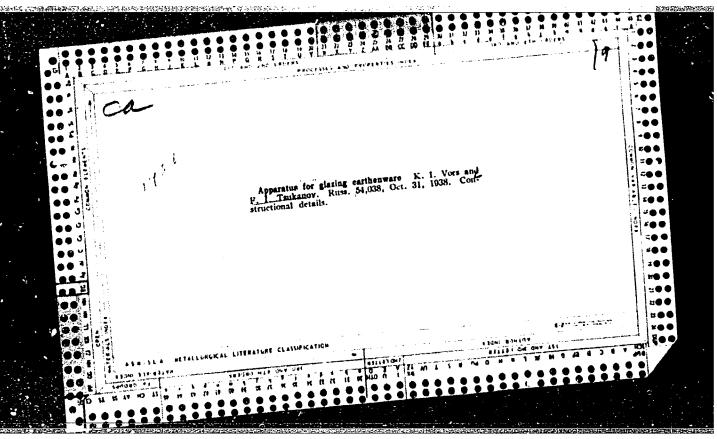
TSUKAHOV, H.F., dots.; IVANCHERKO, F.K., dots.; MOLOTKOV, L.F., dots.;

AVIDENCO, B.A., ingh.; NIKOLAYEV, V.A., ingh.; KRIZHAHOVSKIY, A.L.,
ingh.; KCKHEO, P.Ya., ingh.

Investigating pressures during plate rolling (with summary in
inglein). Stal' 18 no.4:332-334 ap 158.

1. Dneprodzerzhinskiy vecherniy metallurgicheskiy institut i
Zavod im. Dzerzhinskogo.

(Rolling (Metalwork))



USSR/Human and Animal Morphology - Normal and Pathological. S Anomalies of Development and Pathological Amatomy

: Ref Zhur Biol., No 11, 1958, 50415 Abs Jour

: Mil'man, N.Ya., Tsukasov, I.A. Author

Inst

: A Rare Congenital Monstrosity Title

: Akusherstvo i ginekologiya, 1957, No 2, 110-111 Orig P b

: A case of birth of a child with three lower extremities, Abstract

two pelves, anastomosis between the urinary bladder and rectum, and with umbilical and myelocele hernias, is

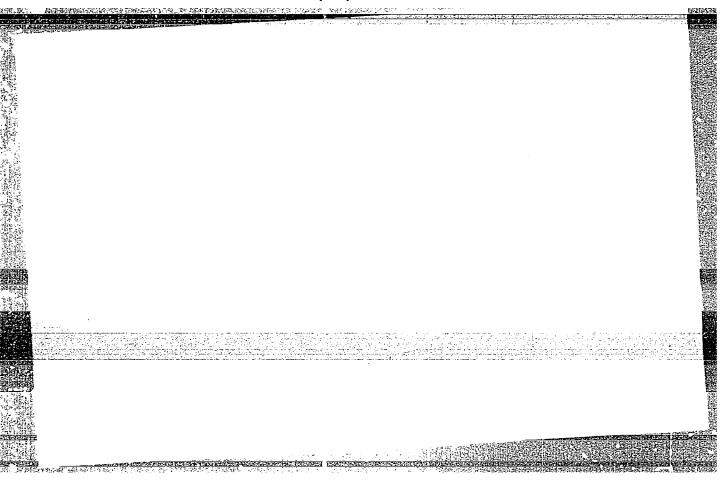
described. The child lived about two weeks.

Card 1/1

ZALIZNYAK, A.A., kand. tekhn. nauk; TSUKANOV, A.A., inzh.; VINOKUROV, Ye.A.,

Bubbling of an NC-1 composition glass batch. Stek. i ker. 22 no.8: (MIRA 18:9)

1. Gusevskoy filial Gosudarstvennogo nauchno-issledovatel skogo instituta stekla (for Zaliznyak) 2. Tuymazinskiy zavod meditsinskogo stekla (for TSukanov, Vinokurov).



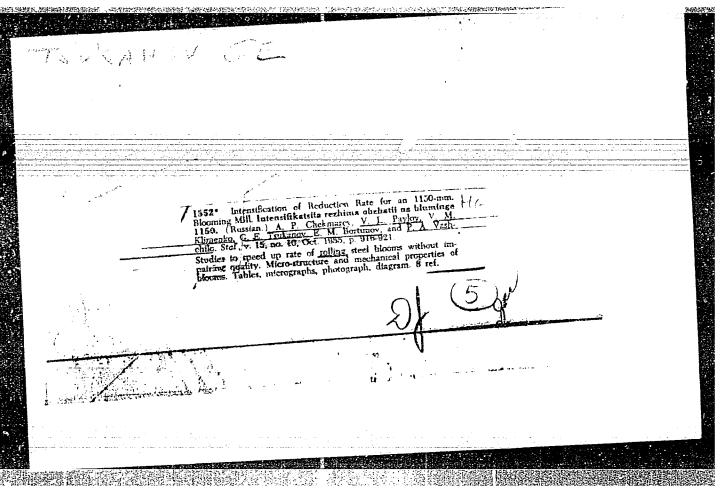
MOLOTKOV, L.F., kandidat tekhnicheskikh mauk, detsent; TSUKANOV, G.E.;
BORTUHOV, Ie.M., inzhemer.

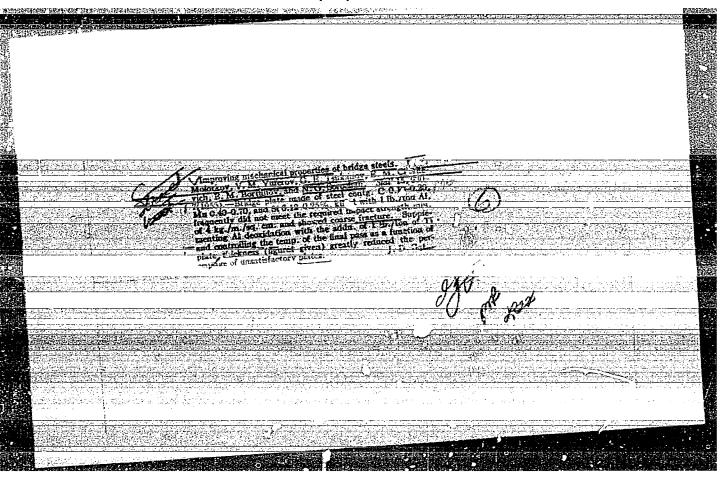
The eperating cenditiens of vertical rells in universal mills.

Stal' 15 me.10:914-915 0 '55.

1.Dmepredmershimskiy metallurgicheskiy institut i zaved inemi
Dmershimskege.

(Rellimg mills)





TSUKANOV, G.E., inzh.

Pipe cogging mill at ti. Dzerzhini tii Plant [with summary in English].

Stal' 18 no.11:1012-1017 N'58. (MIRA 11:11)

1. Zavod imeni Dzerzhinskogo.
(Dneprodzerzhinsk--Rolling mills) (Pipe, Steel)

SOV/133-59-3-14/32 Samarin, A.M., Novik, L.M., Tsukanov, G.E., Kuznetsov, M.P. · AUTHORS:

and Lukutin, A.I.

Vacuum Treatment of Bessemer Steel (Vakuumnaya obrabotka TITLE:

bessemerovskoy stali)

Stal', 1959, Nr 3, pp 231-238 (USSR) PERIODICAL:

The application of vacuum treatment of Bessemer steel in ABSTRACT: a 22-ton ladle before teeming in order to improve the

quality of steel was introduced at the Dzerzhinskiy Works The design of the installation is outlined and in 1957. the lay-out shown in Figure 1. Main point - the evacuation

is effected by two parallel pairs of pumps, RVN60 and

RVN-30, connected in series. The dependence of the output of pumps operating separately and connected in series on pressure is shown in Figure 2 and the change of pressure in the vacuo chamber with time in Figure 3. At the 8th minute of treatment the pressure in the chamber falls to 2 mm Hg. The gases pumped out of the chamber are cooled in a cooler and purified from dust in a cyclone and a filter.

The investigation of the vacuo treatment on the quality of steel was carried out on 25 to 3 of rail steel and 17 heats of rimming steel. The treatment of

Card1/5

837/133-59-**3-14/**32

Vacuum Treatment of Bessemer Steel

Uard2/5

rail steel varied between 12-15 minutes during which the metal was boiling violently - its level was rising up to In all cases, the metal was deoxidised with ferromanganese and ferrosilicon during tapping into the ladle; aluminium (150 - 500 g/t) was introduced after the treatment when the steel was already well deoxidised. A number of heats were carried out in which vanadium (0.1 -0.15%) or boron (0.005%) were introduced under vacuum through a special charging ar angement 3-4 minutes before the end of the treatment. The chemical composition of the metal remains practically unchanged during the vacuo treatment; the content of iron oxides in slag decreases by 20-30% and of silicon by 5-6% due to deoxidation with carbon. Changes in the content of oxygen in rail steel during the treatment and teeming are shown in Figure 4 and of hydrogen in Figure 5. Changes in the content of hydrogen in the treated steel along the depth of the ladle are shown in Figure 6; sulphur of a cross-section of rail from vacuo-treated and ordinary steel - Figure 7; the dependence of the tensi o strength, relative elongation and relative necking of rails from ordinary and vacuotreated steel with additions of aluminium and vanadium

SOV/133-59-3-14/32

Vacuum Treatment of Bessemer Steel

before and after normalisation on the sum of [C + 0.25 Mn]- Figure 8, 9 and 10, respectively; the dependence of the impact strength of rails from vacuo-treated and ordinary steel on  $\sum [C + 0.25 \text{ Mn}]$  at 20 °C - Figure 11, at - 40 °C - Figure 12, after deformation againg -Figure 13. The mean duration of the vacuo treatment of rimming steel was 14.5 minutes at a minimum pressure of 16 mm Hg. The process is accompanied by a violent boiling (the level of the metal rises by 600 - 700 mm). As the pumping capacity was insufficient to decrease sharply the content of nitrogen, it was combined into stable nitrides by additions to some heats of aluminium (300 - 1 000 g/t) or vanadium (0.1%). The additions were made through the charging installation 4-5 minutes before the end of the The content of carbon decreases by 0.03 - 0.06% during the treatment. Changes in the content of Saygen and hydrogen during the treatment - Figures 14 and 15, respectively; indices of impact strength of the ordinary and treated metal are shown in Figure 16 and the table. On the basis of the results obtained, the following conclusions are drawn: a) vacuo treatment of liquid metal

Card3/5

Vacuum Treatment of Bessemer Steel

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in the ladle increases the quality of Bessemer steel to a level of the open-hearth steel; b) with the duration of the treatment of 14-15 minutes and a pressure in the chamber of 5-10 mm Hg for killed metal and of 15-20 mm Hg for rimming metal a deep degassing of the whole volume of the metal is obtained (the content of oxygen decreases 4.4 - 6 times, on average to 0.0013% in rail steel and to 0.0041 in rimming steel; the content of hydrogen decreases by a factor of more than 2, approximately to 2.4 cm<sup>2</sup>/100 g in rail and to 2.4 cm<sup>3</sup>/100 g in rimming steel; of nitrogen in rimming steel decreases by 38.5%). the content c) This decrease in the content of hydrogen in rail steel makes it flake insensitive without an application of slow cooling or isothermal treatment of the rolled product. d) Vacuo treatment makes the deoxidation of aluminium unnecessary which, if needed, can be introduced after the treatment into the metal already well deoxidised by carbon. Alloying additions can be also introduced into already deoxidised metal at the end of the treatment through special

charging installation in the top of the vacuo chamber. e) Bessemer rails from vacuo-treated metal possess higher Card4/5 plastic properties and impact strength at positive and

CIA-RDP86-00513R001757130009-8"

APPROVED FOR RELEASE: 03/14/2001

Vacuum Treatment of Bessemer Steel

SOV/133-59-3-14/32

negative temperatures as well as after deformation ageing than rails made by the usual sechnology. On increasing carbon content to 0.8% and alloying with a small amount of vanadium (0.1 - 0.2%) or boron (0.003 - 0.005) or titanium (1-2 kg/t) and normalisation non-ageing rails can be obtained with higher physico-mechanical properties than those of rails from open-hearth steel. f) By vacuo treatment a good structural Bessemer steel can be obtained in which the zone of thermal influence of welded seam is not subjected to thermal ageing (decreased sensitivity of vacuo-treated metal to mechanical ageing is completely removed during normalisation of rolled products). There are 16 figures, 1 table and 2 Soviet references.

ASSOCIATIONS:

Institut metallurgii AN SSSR (Institute of Metallurgy of the Ac.Sc.USSR) and Zavod im. Dzerzhinskogo (im. Dzerzhinskiy Works)

Card 5/5

0011.173-1-9-5-17/32 AUTHORS:

Chekmarev, A.P., Academician Ukrainian Academy of Sciences, Meleshko, V.I., Pavlov, V.L., Chekhranov, V.D., Candidates of Technical Sciences and Tsukanov, G.F., Shafran, I.K.,

Engineers, Ivanin, M.P., Senior Operator

Rolling of Twin Ingots on a 1150 Blooming Mill (Prokatka TITLE:

sdvoyennykh slitkov na bluminge 1150)

Stal', 1959, Nr 3, pp 243 - 247 (USSR)

ABSTRACT: A rolling practice of rolling two ingots (in line one after

the other) into blooms and slabs introduced at the Dzerzhinskiy Works at the end of 1957 is described. in the roll passes made in 1958 are shown in Figures land 2; characteristic dimensions and weights of rolled ingots -Table 1; rolling conditions during simultaneous rolling of two ingots into blooms - Table 2 and into slabs - Table 3. The operation of the mill under the above rolling conditions was investigated in co-operation with the Iron and Steel Institute of the Ac.Sc. Ukrainian SSR. Examples of the oscillographs obtained, indices of the loads and rolling

velocities on rolling single and twin ingots are shown in Figures 4 and 5 and Tables 4 and 5, respectively. The experience of this type of rolling practice indicated that

Cardl/2 it is advantageous to apply it on all blooming mills as a

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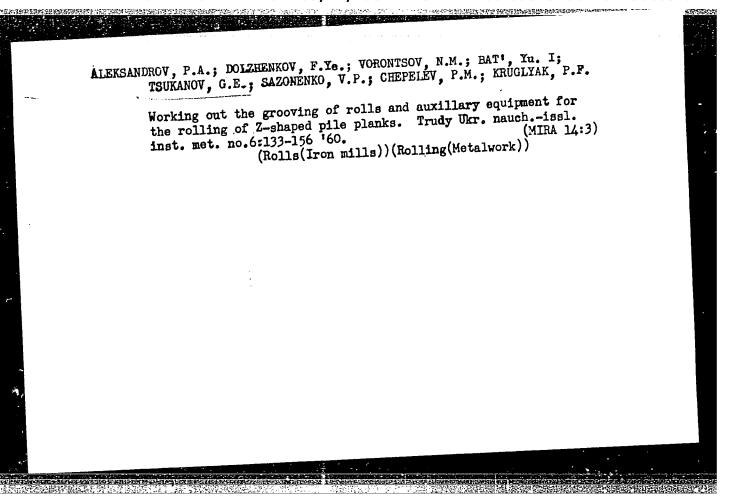
Rolling of Twin Ingots on a 1150 Blooming Mill

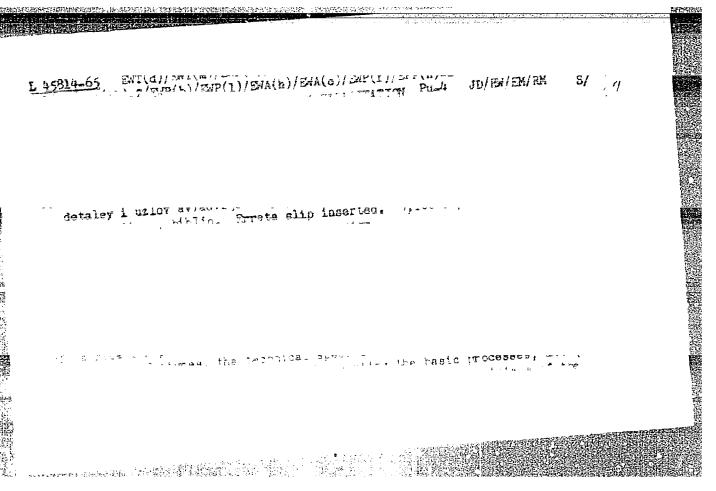
15-30% increase in the output (depending on the type of ingot and dimensions of blooms and slabs) can be obtained. This increase is mainly due to a decrease in the idling time. By maintaining correct rolling velocities the occurrence of shocks in the main mill line (when the grip of the second ingot takes place during the retardation of the motor) can be avoided. When introducing twin-ingot rolling in existing mills, it is necessary to introduce protective measures from overloading of asynchronous and rolling motors according to heating conditions. When designing new mills or reconstructing an existing mill, the possibility of rolling twin ingots should be taken into consideration. For this purpose, an increase in the power of motors and an increase in the length of the manipulator is necessary. There are 5 figures and 5 tables.

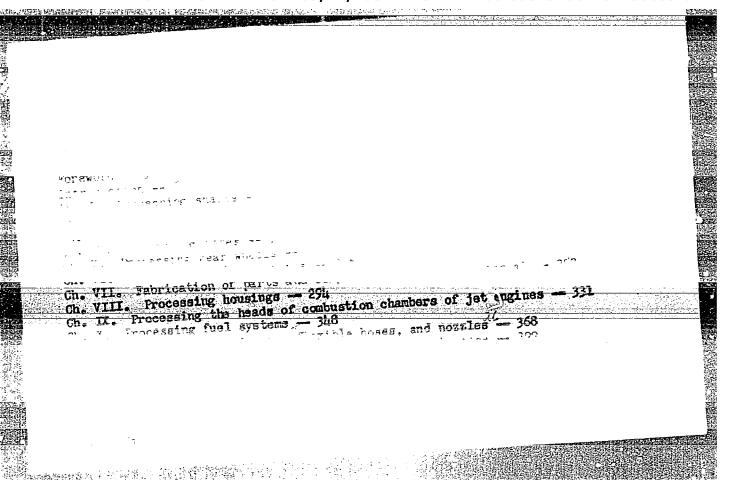
ASSOCIATIONS: Institut chernoy metallurgii AN USSR (Institute Ferrous Metallurgy, AS UKSSR) and zavod im. Dzerzhinskogo (im. Dzerzhinskiy Works)

Card 2/2

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PRISE I BOOK EXPLOITATION	tradentys mant SSSE. Emissiys po fisito-bhistoheskis osnoras pro Friscassiys vakumas v setallurgii (Use of Vacum in Metallurgi) 18 SSSE, 1960. 334 p. Errata silp inserted. 4,960 copies pri- sponsoring Ageory: Abadentys neut SSSE. Institut setallurgii ins Emissiys po fisito-bhistoheskis osnoras prolivodava stali. Emissiya po fisito-bhistoheskis osnoras prolivodava stali.	t, manutany)  o of 'articles is intended  and development of ween  thursons, reduction pro  functioning of apparit  on with some of the article  on with a beed trumi	1. Existing. Effect of Vacuum freshams chrome on the moont of Me Onde Loin Sharry. Physicochamical Principles of King.	Hortz, L.M., A.I., Emutin, and A.M., Sanarin., Vacum Tratuact of Steel. Experience, M.P., and G.E., Tenkanov., The Effect of Vacuum Tratus	nnamer Mail Steel -D. Kodolor The Effect seemer Constructional S gr. K.L. Anghalen, Han Ye	Manua for Laprovist the factor of the factor	Collections 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	irio a kepublic, Institute irio of Alloyed Carbon i braser and A.N. Sanarin. I.L. Ecodalor Restructive of Steel	* 2.1. Earger and '2.14. Searid teal Deservariation is Verum by . O.4. Yeals, and S.N. Explaidible is derivity of Sillson in Noiten Investigation of Oas Liberation	
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Urdercutting the root of teeth in external spar gear wheels

Urdercutting the root of teeth in external spar gear wheels
machined with rack-type cutting tools. Trudy MAI no.140:113-129
machined with rack-type cutting)

(Gear cutting)

TSUKANOV. I.S., kandidat tekhnicheskikh nauk, dotsent.

Selecting efficient method for gear cutting. Vest.mash. 37
(MIRA 10:7)
no.6:45-49 Je '57.

(Gear cutting)

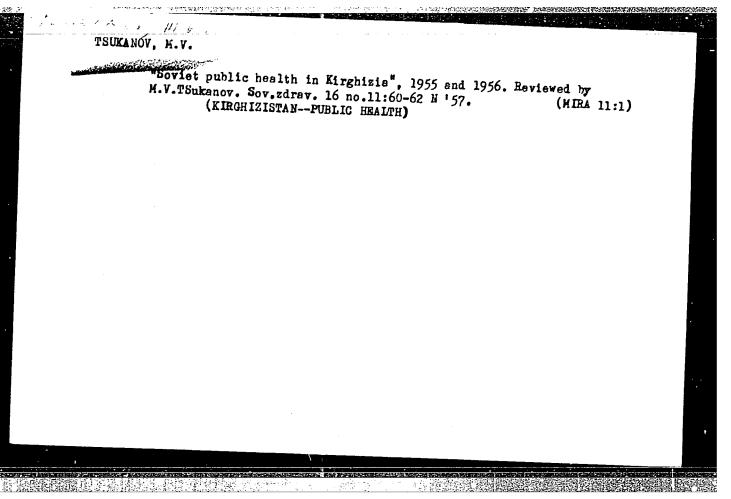
SHMANEV, V.A., kandidat tekhnichetkikh nauk; TSUKANOV, I.S., kandidat tekhnichetkikh nauk.

Investigating the rigidity of pedestal-type vertical milling machines. Trudy MAI no.70:57-83 \$56.

(MLRA 9:12)

PODZEY, Anatoliy Vladimirovich; SULIMA, Andrey Mikhaylovich; FIRAGO,
Valentin Petrovich; TSUKANOV, Ivan Sacenovich; EUINDZHI, A.A.,
inzhener, retsenzent; STANKEVICH, V.G., inzhener, redaktor;
BELITSKAYA, A.M., redaktor; SHCHERBAKOV, P.V., tekhnicheskiy redaktor

[Technology of building aviation engines; the processing of principal parts and units] Tekhnologiia aviadvigatelestroeniia; obrabotka osnovnykh detalei i uzlov. Pod red. A.V. Podzeia. Moskva, Gos. izd-vo obor. promyshl., 1957. 415 p. (MLRA 10:5)



FLEYSHMAN, S.M., kandidat tekhnicheskikh nauk; TSUKANOV, N.A., inzhener.

Proking embankments under winter cenditiens. Trudy TSUIS ne.:8:
14-31 '56. (Hailreads--Earthwork) (MLRA 9:10)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"

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S/198/61/007/005/002/015 D274/D303

AUTHORS:

Lapkin, B.D., and Tsukanov, O.A. (Dnipropetrov'sk)

TITLE:

Dynamic stresses in a visco-elastic fiber on instantaneous application of an end load by means of an alastic element

PERIODICAL: Prykladnaya mekhanika, v. 7, no. 5, 1961, 483 - 486

TEXT: The problem is considered of determining the longitudinal dynamic stresses which arise in a homogeneous visco-elastic fiber, to which an end load is indirectly applied (through a spring). For such a stress

 $S(x, t) = EF \left(1 + \mu \frac{A}{\theta t}\right) \frac{\partial u(x, t)}{\partial x}, \qquad (1)$ 

where u is the displacement, - the cross section. In addition

 $\frac{\partial S(x, t)}{\partial x} = \rho \frac{\partial^2 u(x, t)}{\partial t^2}$  (2)

Card 1/5

Dynamic stresses in a ...

S/198/61/007/005/002/015 D274/D303

where  $\rho$  is the mass of unit length. The boundary conditions are set up. Thereupon

$$s(1, t) + QU(1, t) + \frac{Q}{K}S(1, t) = Qg$$
 (7)

where Q is the mass of the load, and K the rigidity of the spring. Introducing the images  $S^*$  and  $u^*$  of the functions S and u, one obtains, with zero initial conditions

$$p^2 s^* = a^2 (1 + \mu p) \frac{d^2 s^*}{dx^2},$$
 (8)

$$\frac{ds^*}{dx} = \rho p^2 u^*, \qquad (9)$$

$$\frac{ds^*}{dx} = \rho p^2 u^*, \qquad (9)$$

$$s^*(1, p) + Qp^2 u^*(1, p) Qg, \qquad (10)$$

$$u^* = (0, p) = 0.$$
 (11)

The function S\* which satisfies Eqs. (8) and (9), and conditions Card 2/5

S/198/61/007/005/002/015 D274/D303

Dynamic stresses in a ...

(10), (11) is expressed by

$$s^*(x, p) = \frac{\alpha Qg \text{ ch } \gamma x}{\alpha (1 + \delta p^2) \text{ ch } \gamma 1 + \gamma 1 \text{ sh } \gamma 1}, \qquad (12)$$

where  $\delta = Q/K$ ;  $\alpha = P/Q$  (P being the mass of the fiber). In order to find the original S(x, t) of S\*(x, p) it is necessary to first solve

 $\alpha(1 + \delta p^2) \operatorname{ch} \gamma 1 + \gamma 1 \operatorname{sh} \gamma 1 = 0. \tag{13}$ 

An analysis shows that all the solutions of this equation are complex. The solution of such equations is very cumbersome. For convenience, the solution of Eq. (13) is sought in the form

$$p_n = \frac{k^2 e^{\pm i2\varphi} - 1}{\mu} . \tag{14}$$

Thereby, Eq. (13) decomposes into two transcedental equations with real arguments, viz.

Card 3/5

(18)

29221 S/198/61/007/005/002/015 D274/D303

Dynamic stresses in a ...

$$\frac{\sinh 2\frac{l}{a\mu}x}{\cosh 2\frac{l}{a\mu}x + \cos 2\frac{l}{a\mu}y} + \alpha \frac{a}{l}\left(b\mu + \frac{\delta m}{\mu}\right) = 0,$$
(15)

$$\frac{\sin 2\frac{l}{a\mu}y}{\cosh 2\frac{l}{a\mu}x + \cos 2\frac{l}{a\mu}y} + \alpha \frac{a}{l} \left(\frac{\delta n}{\mu} - \mu d\right) = 0. \tag{16}$$

$$x = (k - \frac{1}{k}) \cos \varphi; \tag{17} \qquad y = (k + \frac{1}{k}) \sin \varphi; \tag{18}$$

where

(b, d, m, n are given by expressions). Thereupon, the first two solutions (p<sub>1</sub> and p<sub>2</sub>) found for  $\alpha=0.5$ ,  $1/a\mu=1$  and  $\delta=\mu^2=$ 

= 0.01 are:

$$p_1 = -1.068 \pm 15.411,$$
 $p_2 = -12.458 \pm 123.293.$ 
(22)

Card 4/5

CIA-RDP86-00513R001757130009-8" **APPROVED FOR RELEASE: 03/14/2001** 

S/198/61/007/005/002/015 D274/D303

Dynamic stresses in a ...

These solutions permit finding approximate values of S(x, t), (in the form of rapidly converging series). The effect of  $\delta$  and  $\mu$  on the dynamic spresses is ascertained and the results are listed in the table. It is noted that a knowledge of  $\delta$  only, is insufficient evaluate the rigidity K. There are 1 table and 4 Sovet-bloc references.

ASSOCIATION: Dnipropetrovs'kyy instytut inzheneriv transportu

(Dnipropetrov'sk Institute of Transportation Engineers)

SUBMITTED: August 25, 1960

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Card 5/5

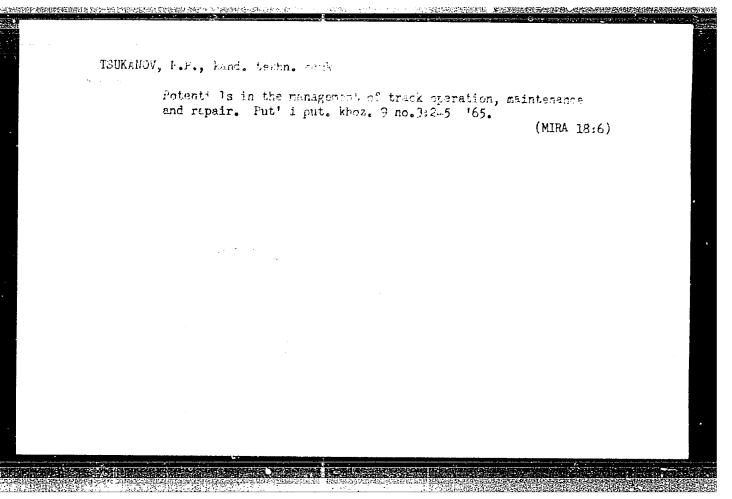
THEANOV, dalla, kanda terbelangua Satisfield the norms of temperodicity of rail exchange and beste principles of the utilization of committioned rails. Trudy (MIRA 18:10) TONET MES mo. 290:184-031 165. 

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"

MELENT'YEV, L.P., kand.tekhn.nauk; TSUKANOV, P.P., kand.tekhn.nauk; CHERNYSHEV, M.A., prof.

Means of increasing the efficiency of the operation of track facilities. Zhel.dor.transp. 46 no.ll:54-58 N \*64. (MIRA 18:1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"



TSUKANOV, P.P., kand.tekhn.nauk

Lengthening the service life of rails. Zhel.dor.transp. 45 nc.10: 24-29 0 '63. (MIRA 16:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"

SHCHAPOV, N.P., doktor tekhn.nauk, prof.; ZOLOTARSKIY, A.F., kand.tekhn.nauk; TSUKANOV, P.P., kand.tekhn.nauk

Serviceability of the rail steel and ways to improve it. Vest. TSNII MPS 22 no.6:3-7 '63. (MIRA 16:10)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"

ZOLOTNITSKIY, A.A.; ROGOZHINSKIY, P.V.; TSUKANOV, P.P., kand.tekhn.nauk.

Maintenance of "R75" rails. Put' i put.khoz. 6 no.11:38-40 '62.

(MIRA 16:1)

1. Nachal'nik Kuybyshevskoy distantsii Kuybyshevskoy dorogi (for Zolotnitskiy). 2. Nachal'nik puteobsledovatel'skoy stantsii Kuybyshevskoy dorogi (for Rogoshinskiy). 3. Rukovoditel' rel'sovoy laboratorii Vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta (for TSukanov).

(Railroads—Rails)

TSUKANOV, P.P., kand.tekhn.nauk

Lengthening the service life of rails. Zhel, dor.transp. 44 no.3:
26-32 Mr '62. (Mailroads—Rails)

(Railroads—Rails)

VOLZHENSKIY, A.V., doktor tekhn. nauk; KOGAN, G.S., kand. tekhn. nauk; TSUKANOV, Yu.S.,

[Gypsum-cement-puzzuolanic binding materials and concretes on their base] Gipsotsementnoputstsolanov viazbushchie veshchestva i betory na ikh osnove. Riazan¹, Riazanskala kompleksnaia nauchno-issl. stantsiia-laboratoriia po sel¹-skomu stroitel¹stvu NIISZ AS i SSSR, 1961. 48 p.

(MIRA 17:8)

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IVANOV, Konstantin Yevgen'yevich; ULYUYEV, Dmitriy Ivanovich; TSUKANOV,
P.P., inzhener, redaktor; VERIMA, G.P., tekhnicheskiy redaktor

[Tracklayer] Rel'soukladchik. Moskva, Gos. transportnoe zhel-dor.
izd-vo, 1955. 94 p.

(Railroads--Track)

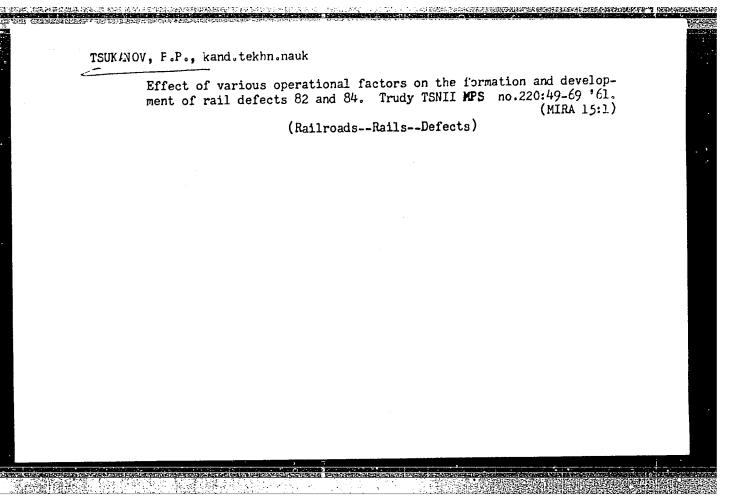
(Railroads--Track)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"

TSUKANOV, P.P., kand.tekhn.nauk

Operational strength of modern rails. Trudy TSNII MPS no.220:4-31
(KIRA 15:1)

(Railroads--Rails)



TSUKANOV, P.P., kand.tekhn.nauk; SHKOL'NIK, L.M., kand.tekhn.nauk

Effect of carbon and manganese content of rail steel on the formation or rail defects 82 and 84. Trudy TSNII MPS no.220:70-85 '61. (MIRA 15:1)

(Railroads--Rails--Defects)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"

TSUKANOV, P.P., kand.tekhn.nauk; ZOLOTARSKIY, A.F., kand.tekhn.nauk

Norms of repair periodicity are a most important feature in track management. Zhel.dor.transp. 43 no.6:27-33 Je 161.

(MIRA 14:7)

(Railroads -- Maintenance and repair)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"

TSUKANOV, P.P., kand, tekhn, nauk,

Reinforced concrete ties on the railroads of Western Europe, Put'
i put. khoz. no.1:44-47 Ja '58. (MIRA 11:1)
(Europe, Western--Railroads--Ties, Concrete)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757130009-8"

SOV/124-58-4-4604

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 4, p 135 (USSR)

AUTHOR: Tsukanov, P.P.

TITLE: Investigation of Elastic and Residual Settling of Crossties

(Issledovaniye uprugikh i ostatochnykh osadok shpal)

PERIODICAL: Tr. Vses. n.-i. in-ta zh.-d. transp., 1957, Nr 137, 135 pp, ill., R.5.90

ABSTRACT: Bibliographic entry

1. Tracks (Railroad) -- Equipment 2. Wood--Performance

Card 1/1

TSUKANOV, P.P., kand. tekhn. nauk.

Damage and separate removal of R43, R50, and R65 rails.

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(Railreads--Rails)

TSUKANOV, P.P., kand.tekhn.nauk

Let's not underestinate the introduction of long and continuous rails. Zhel. dor. transp. 40 no.3:44-49 Mr '58. (MIRA 11:4)

(Railroads-Rails)

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TSUKANOV, P.P.; SOROKIN, N.N., redaktor; KHITROV, P.A., tekhnicheskiy

[Applying advanced methods to track maintenance on industrial railroad lines] Primenenie peredovykh metodov sodershaniia puti na promyshlennom zheleznodoroshnom transporte. Moskva, Gos. transp. zheldor. izd-vo, 1953. 92 p. [Microfilm] (MLRA 7:11) (Railroads--Maintenance and repair)

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ALFEROV, A.A. ---- (continued) Card 2.

MOSKVIN, G.N., redaktor; RUBINSHTEYN, S.A., redaktor; TSYPIN, G.S., redaktor; CHERNYAVSKIY, V.Ya., redaktor; CHERNYSHEV, V.I., redaktor; CHERNYSHEV, M.A., redaktor; SHADUR, L.A., redaktor; SHISHKIN, K.A., redaktor

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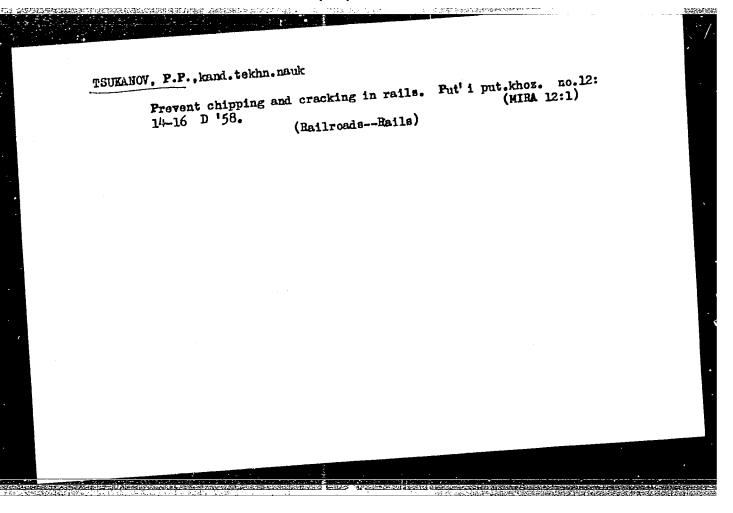
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SKORODUMOV, Georgiy Yevgen'yevich, kand. tekhn. nauk; SMIRNOV, Aleksey Ionovich, kand. tekhn. nauk; SMIRNOV, Mikhail Petrovich, kand. tekhn.
nauk; OSIPOV, M.I., inzh., retsenzent [deceased]; TSUKANOV, P.P.,
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[The Donets railway's advanced method of track maintenance]
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Foreword. Trudy TSNII MPS no.111:3-4 '55. (MLRA 9:5)

l Direktor instituta (for Ivanov); 2. Rukovoditel' otdeleniya putevogo khozyaystva (for TSukanov); 3. Rudovoditel' otdeleniya ispytaniya materialov i konstruktsiii (for Shchapov).

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TSUKANOV, P.P., kandidat tekhnicheskikh nauk.

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(Railroads--Maintenance and repair)

TSUKANOV, P.P., kand.tekhn.nauk

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no.11:10-14 N \*61.

(Railroads...Rails)

(Railroads...Rails)

TSUKANOV, P. P.

Soderzhanie i remont puti; o peredovyku metodaku raboty puteitsev. The maintenance and repair of railroad tracks. Moskva, Gos. transp. zhel-dor. izd-vo, 1947. 237 p. (49-15787)

TF530.T78

1. Railroads - Track. 2. Railroads - Maintenance and repair.

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TSUKANOV, P.P., kand, tekhn, nauk.

Further increases in the strength of the heavy type of rails.

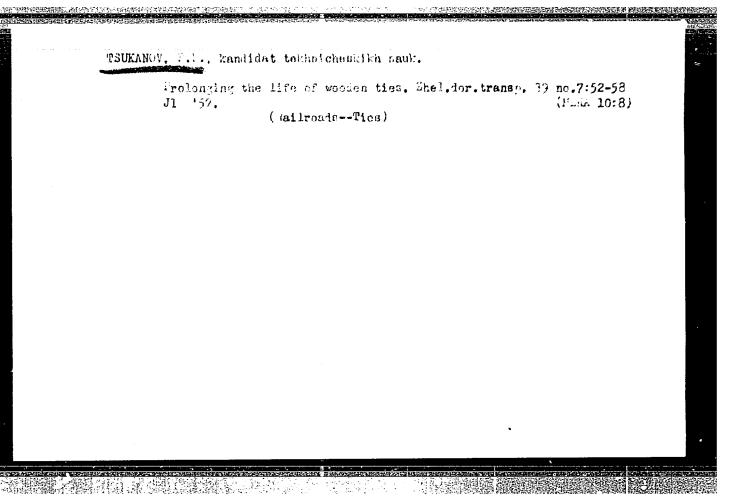
Vest. TSNII MPS 17 no.4:3-8 Je '58.

(Railroads--Rails)

TSUKANOV, P.P., kandidat tekhnicheskikh nauk.

Utilizing potentialities of existing track is a most important task. Zhel.dor.transp. 37 no.1:56-59 Ja \*56. (MLRA 9:3)

(Railroads--Track)



TSHYAMAW. Resemblar sylch; SOROKIN, N.N., inshener, redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor.

[Investigation of elastic and residual settling of railroad ties]
Issledovanie uprugikh i ostatochnykh osadok shpal, Moskya, Gos., transp. shel.-dor. isol-os., 1957:-133 p. (Moscow, Yessoyuznyi nauchno-issledovatel'skii institut sheleznodorozhnogo transporta.

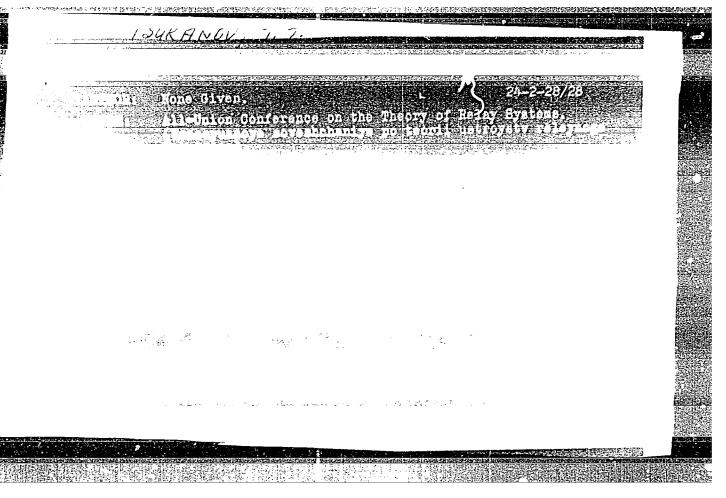
Trudy no.137)

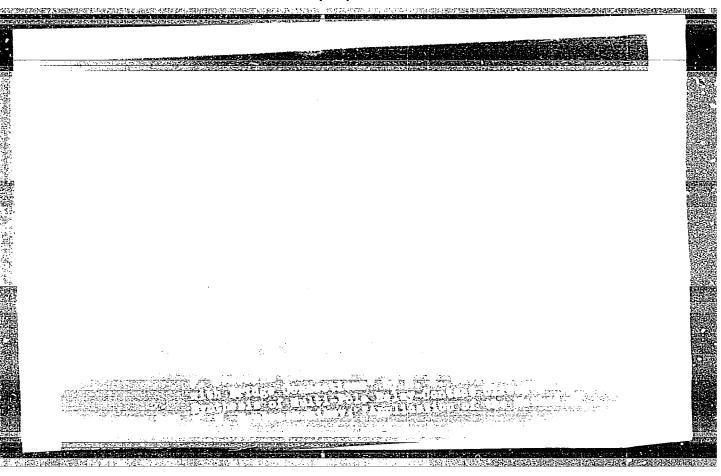
(Railroads--Ties)

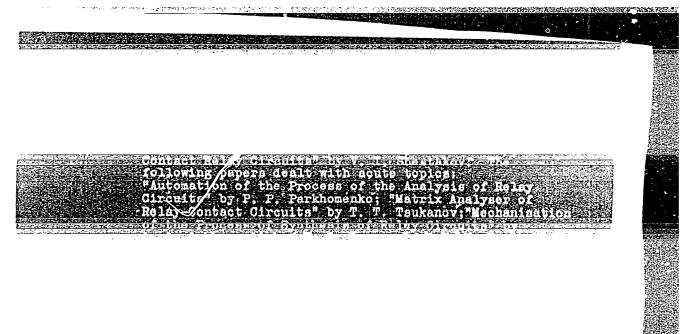
LISOVSKIY, A.S.; TSUKANOV, T.T.; BORODAVKIN, M.A.; ZAZHIRKO, V.N.; LISUNOV, V.N.; SOLONENKO, G.I.

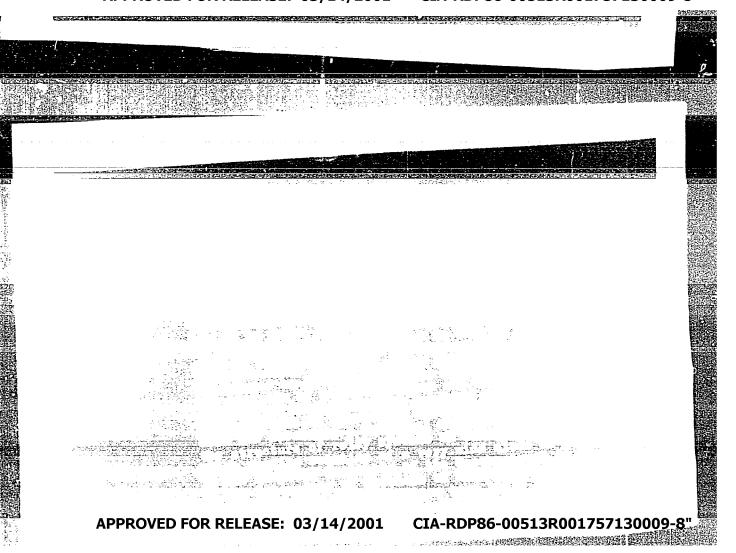
Remote control of dump car unloading from the operator's cab of electric locomotives. Trudy TEIIZHT 34:145-151 '62. (MIRA 16:8)

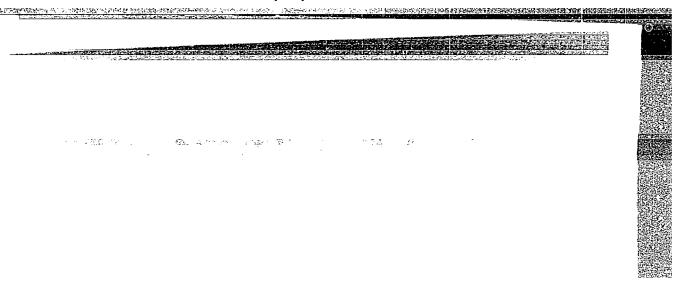
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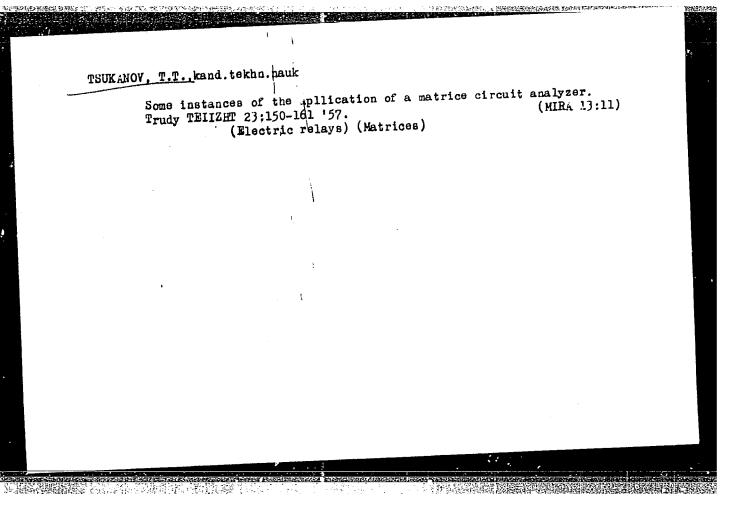


(TSUKANOV, T.T., kand.tekhn.nauk

**以外通数**的。在1915年,各种海流生产,1915年

Problems in the mechanization of analysis process of relay switching circuits, Trudy TELIZHT 23:129-149 '57. (MIRA 13:11) (Matrices) (Electric switchgear)

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LUPAL, Nikolay Vasil'yevich; BOSIN, Matvey Itskovich; PEREBOROV, Aleksandr Sergeyevich; SMIRNOVA, Appolinariya Vasil'yevna; Hyler, Aleksandr Aleksandrovich; TSUKANOV, T.T., kand. tekhn, nauk, retsenzent; SHUFLOV, V. I., kand. tekhn, nauk, retsensent; GLUZMAN, I.S., kand.tekhn.nauk, red.; USENKO, L.A., tekhn.red.

[Theoretical principles of automatic and remote control] Teoreticheskie osnovy avtomatiki i telemekhaniki. By N.V. Impal i dr. Moskva, Vses.izdatel'sko-poligr.ob edinenie M-va putei soobshchenita, 1961. 414 p. (MIRA 14:12)

CANTOLIS FOR THE SECRETARISM SHIPT THE PROPERTY.

(Automatic control)

(Remote control)

TSUKANOV, T.T., assistent

Depicting tracks by a single line in drawings showing isolation of yard tracks. Avtom., telem. i sviaz' 2 no.3:25 Kr '58. (MIRA 13:1)

1.Tomskiy elektromekhanicheskiy institut inzhenerov zheleznodorozhnogo transporta.
(Railroad engineering--Tables, calculations, etc.)

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PARKHOMENKO, P. P. and TSUKANOV, T. T.

"Problems Concerning the Automation of the Analysis of Relay Schemes."

report presented at All-Ukion Conference on Problems in the Theory of Relay Devices, Inst. for Autoamtion and REmtoe Control AN USSR, 3-9 Oct 1957.

Vestnik AN SSSR, 1958, No. 1, v. 28, pp. 131-132. (author Ostianu, V. M.)

TSUKANOV, T. T.

"A Matrix Analysor for Relay-contact Systems and Problems of its Application." Min Railways USSR. Leningrad Order of Lenin Inst TSUKANOV, T. T. of Railroad Transport Engineers imeni Academician V. N. Obraztsov. Tomsk, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 19, 1956.

CIA-RDP86900505R001757130009-s/149/62/001 Zamyatnin, M. M., Tsukanov, V. A., Tomilov, M. Ye., Shutov, I. A. A006/A101 The effect of low temperatures upon the mechanical properties of allovs BT 3 (VT3). BT 5 (VT5). and grade NO XC. (NOKAS) steel The effect of low temperatures upon the mechanical properties and grade 140 KC (40KhS) steel alloys BT 3 (VT3), BT 5 (VT5), and grade 140 KC (40KhS) Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, no. 1. 1962. 152 - 156 181255 The mechanical properties of titanium alloys and improved alloyed.

The mechanical properties at temperatures from +20 to -60°C. The mechanical properties of titanium alloys and improved alloys a steel were investigated by comparison tests at temperatures from +20 to titanium high-strength steels and bending tests at temperatures from to titanium high-strength steels and bending high-strength tensile and bending tests at temperatures to reveal the possibility of replacing high-strength tensile and bending were subjected to static tensile and bending were subjected to static tensile and bending alloys. AUTHORS: in order to reveal the possibility of replacing high-strength steels by titanium tensile and bending were subjected to static sof VT5 and, in alloys. Smooth and notched specimens found that the properties of VT5 and impact tests. It was found that the properties of VT5 and impact tests. alloys. Smooth and notched specimens were subjected to static tensile and in the properties of vT5 and, test the properties at all the lastic tests. It was found that the properties at all the properties at all the properties of the properties of the properties and plastic tests, skew and impact tests. approach alloys to reduced ductility and plastic tests, skew are subjected to static tensile and bending the properties of TITLE: particular, VT3 titanium alloys approach those of to reduced ductility and plasticity alloys to reduced steel; it is lower in temperatures. The proneness of titanium than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel; at low temperatures is somewhat greater than for improved steel in the form that low temperatures is somewhat greater than for improved steel in the form than for improved steel in the form that low temperatures is somewhat greater than for improved steel in the form that low temperatures is somewhat greater than for improved steel in the form that low temperatures is somewhat greater than the form that low temperatures is somewhat greater than the form that low temperatures is somewhat greater than the form that low temperatures is somewhat greater than the form that low temperatures is somewhat greater than the form that low temperatures is somewhat greater than the form that low temperatures is somewhat greater than the form that low temperatures is somewhat greater than the form that low temperatures is somewhat greater than the form that low temperatures is somewhat greater than the form that low temperatures the form that low the form the form that low temperatures the form the form that low temperatures the form the form the form that low temperatures temperatures. The proneness of titanium alloys to reduced ductility and plasticity and plasticit PERIODICAL: at low temperatures is somewhat greater than for improved steel; it is lower in that titanium alloy parts can be successed that titanium alloy parts and 2 tables.

The results obtained show to -60°C. There are 4 figures and 2 tables to the tests.

The results down to -60°C. There are 4 figures are 4 figures and 2 tables.

S/149/62/000/004/003/003

The effect of low temperatures upon the...

ASSOCIATION: Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti (Leningrad Technological Institute of the Refrigeration Industry)

Severo-Zapadnyy zaochnyy politekhnicheskiy institut (North-West Correspondence Polytechnic Institute)

SUEMITTED: January 22, 1962

THE REPORT OF THE PROPERTY OF

ZUDIN, V.M.; YAKOBSON, A.P.; KOSTIN, I.M.; GALATONOV, A.L.; GAMAYUROV, A.I.; TSVERLING, A.L.; MALYSHEVA, T.Ya.; SOKOLOV, G.A.; RUDNEVA, A.V.; TSYLEV, L.M.; GUL'TYAY, I.I.

Effect of the sintering temperature on the mineralogical composition of sinter and its metallurgical properties. Stal' 23 no.6:481-485 (MIRA 16:10)

1. Magnitogorskiy metallurgicheskiy kombinat i Institut metallurgii im. A.A.Baykova.

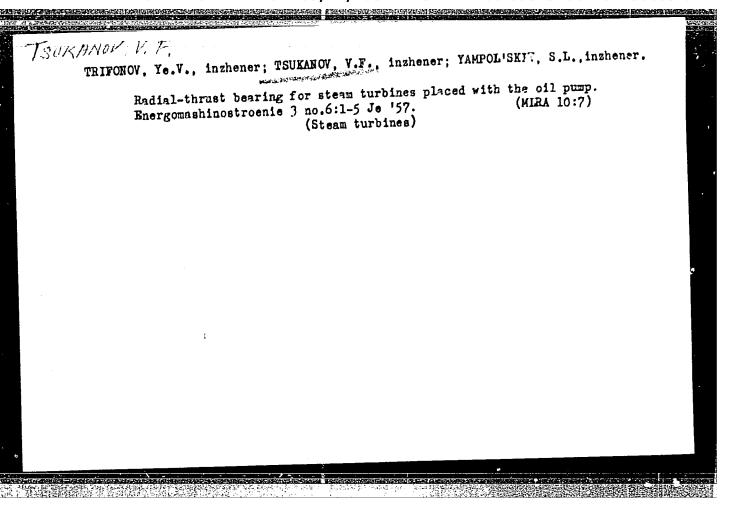
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# TSUKANOV, V. A.

"Properties of Ferrites Alloyed With Manganese"
Tr. Vses. Nauch. Inzh. Tekhn. o-va Metallurgov, 2, 1954, 141-146

Effect of Mn on mechanical properties of ferrite in various states is investigated. All steel samples alloyed in high-frequency furnace exhibited good viscosity and plasticity. The opinion that Mn content over 1.5% leads to brittleness was not confirmed. (RZhFiz, No 9, 1955)

SO: Sum-No 787, 12 Jan 56



THE REPORT OF THE PERSON OF TH

SMIRNOV, Aleksandr Vasil'yevich; BELORUCHEV, Lev Vladimirovich; KAPLUN, Ruvim Iosifovich; MORSHTEYN, Isaak Mikhaylovich; TSUKANOV, Vladimir Andreyevich; NACHINKOV, A.D., red.

[Nitriding passivating steels with the use of carbon tetra-chloride] Azotirovanie passiviruiushchikhsia stalei s primeneniem chetyrekhkhloristogo ugleroda. Leningrad, 1964. 20 p. (Leningradskii dom nauchno-tekhnicheskoi propagundy. Feredovoi proizvodstvennyi opyt. Seriia: Metallovedenie i termicheskaia obrabotka, no.3) (MIRA 17:7)

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